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## Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 4 (replaces version 3)

Revision: 19.01.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: TEP 4

• Article number: 108700

• Description: Technical buffer solution pH 4.01 (25 °C)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

- **Product category:** PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Calibration solution

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany Tel. +49 881 183-0

· Further information obtainable from: E-mail: Info.WTW@xylem.com

1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

#### 2.2 Label elements:

- · Labelling according to Regulation (EC) No 1272/2008: Void
  - · Hazard pictograms: Void
  - · Signal word: Void
  - · Hazard statements: Void
- · 2.3 Other hazards No further relevant information available.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

#### · Description:

Mixture, consisting of the following components: Water, potassium hydrogenphthalate

• Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### •4.1 Description of first aid measures

· General information: Take off contaminated clothing and wash it before reuse.

- After inhalation: Supply fresh air.
- · After skin contact: Rinse skin with water [or shower].
- \* After eye contact: Rinse opened eye for several minutes under running water.

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Trade name: TEP 4

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· After swallowing: Get medical advice/attention if you feel unwell.

\*4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

\*4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **SECTION 5: Firefighting measures**

<sup>•</sup> 5.1 Extinguishing media

• Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.

• 5.2 Special hazards arising from the substance or mixture No hazards to be particularly mentioned.

5.3 Advice for firefighters

· Protective equipment: No special measures required.

## **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures

No special measurements required when handled properly.

• 6.2 Environmental precautions: No special measures required.

- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections No dangerous substances are released.

## **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

- <sup>•</sup> Requirements to be met by storerooms and receptacles: No special requirements.
- <sup>•</sup> Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- \*7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: The lists valid during the making were used as basis.

#### <sup>•</sup> 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

#### Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid contact with the eyes and skin.

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and at the end of work.

- Respiratory protection: Not required.
- Hand protection Protective gloves recommended for frequent or long-term skin contact.
- Material of gloves Nitrile rubber, NBR
- · Eye/face protection Safety glasses

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• Environmental exposure controls Not hazardous for water.

SECTION 9: Physical and chemical properties		
• 9.1 Information on basic physical and chemical properties • General Information		
<sup>•</sup> Physical state	Fluid	
· Colour:	Yellow	
· Odour:	Odourless	
• Melting point/freezing point:	-1.6 °C	
Boiling point or initial boiling point and boiling range	100 °C	
· Flammability	Product is not flammable.	
<sup>•</sup> Flash point:	Not applicable.	
pH at 20 °C	4	
Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	
· Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
Density at 20 °C:	1.01 g/cm <sup>3</sup>	
9.2 Other information		
<sup>·</sup> Important information on protection of health and		
environment, and on safety.		
Explosive properties:	Product does not present an explosion hazard.	
Information with regard to physical hazard classes		
Explosives	Void	
<sup>•</sup> Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
<sup>·</sup> Flammable liquids	Void	
<sup>•</sup> Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable gase		
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
<sup>•</sup> Desensitised explosives	Void	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

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- . 10.4 Conditions to avoid No further relevant information available.
- \* 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
  - Acute toxicity
  - No quantitative toxicity data are available for this product.
  - Based on available data, the classification criteria are not met.
  - \* Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - \* Serious eye damage/irritation Based on available data, the classification criteria are not met.
  - \* Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
  - · Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - · Carcinogenicity Based on available data, the classification criteria are not met.
  - Reproductive toxicity Based on available data, the classification criteria are not met.
  - \* STOT-single exposure Based on available data, the classification criteria are not met.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability Easily biodegradable
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- \* 12.5 Results of PBT and vPvB assessment Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
  - General notes: Not hazardous for water.
  - Remark: No environmental hazards are to be expected when the product is handled properly.
  - Additional ecological information:
    - General notes: Not hazardous for water.
  - · Additional ecological information: Not hazardous for water.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

### · Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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### Trade name: TEP 4

SECTION 14: Transport information	on	
SECTION 14. Transport mormation		
14.1 UN number or ID number		
· ADR/RID, ADN, IMDG, IATA	Void	
<sup>•</sup> 14.2 UN proper shipping name		
	Void	
	Void	
<sup>·</sup> ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR/RID, ADN, IMDG, IATA		
Class	Void	
· 14.4 Packing group		
ADR/RID, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according	j to IMO	
instruments	Not applicable.	
UN "Model Regulation":	Void	

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

- · Date of previous version: 19.01.2023
- · Version number of previous version: 3
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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Version number 4 (replaces version 3)

Revision: 19.01.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: TEP 7

• Article number: 108702

• Description: Technical buffer solution pH 7.00 (25 °C)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

- Product category: PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Calibration solution

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany Tel. +49 881 183-0

· Further information obtainable from: E-mail: Info.WTW@xylem.com

1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

#### 2.2 Label elements:

- · Labelling according to Regulation (EC) No 1272/2008: Void
  - · Hazard pictograms: Void
  - · Signal word: Void
  - · Hazard statements: Void
- · 2.3 Other hazards No further relevant information available.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

#### · Description:

Mixture, consisting of the following components: Water, disodium hydrogen phospate, potassium dihydrogen phosphate

• Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### •4.1 Description of first aid measures

· General information: Take off contaminated clothing and wash it before reuse.

- After inhalation: Supply fresh air.
- · After skin contact: Rinse skin with water [or shower].
- \* After eye contact: Rinse opened eye for several minutes under running water.

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Trade name: TEP 7

· After swallowing: Get medical advice/attention if you feel unwell.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.

• 5.2 Special hazards arising from the substance or mixture No hazards to be particularly mentioned.

5.3 Advice for firefighters

· Protective equipment: No special measures required.

## **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: Wash off with water.
- · 6.4 Reference to other sections No dangerous substances are released.

## **SECTION 7: Handling and storage**

- · 7.1 Precautions for safe handling No special measures required.
  - · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - · Information about storage in one common storage facility: Not required.
  - \* Further information about storage conditions: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- .7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

#### 8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.

#### Individual protection measures, such as personal protective equipment

- General protective and hygienic measures:
- Avoid contact with the eyes and skin.
- Take off contaminated clothing and wash it before reuse.
- Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- · Hand protection Not required.
- · Eye/face protection Safety glasses

· Environmental exposure controls Not hazardous for water.

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SECTION 9: Physical and chemical properties		
•9.1 Information on basic physical and chemical properties		
General Information		
<sup>•</sup> Physical state	Fluid	
· Colour:	Colourless	
· Odour:	Odourless	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling range	100 °C	
· Flammability	Product is not flammable.	
<sup>•</sup> Flash point:	Not applicable.	
⁻pH at 20 °C	7	
· Viscosity:		
Kinematic viscosity	Not determined.	
<sup>·</sup> Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	
· Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
Density at 20 °C:	1 g/cm <sup>3</sup>	
environment, and on safety. • Explosive properties:	Product does not present an explosion hazard.	
• • •		
<ul> <li>Information with regard to physical hazard classes</li> <li>Explosives</li> </ul>	Void	
· Flammable gases	Void	
Oxidising gases	Void Void	
Gases under pressure	Void	
<sup>•</sup> Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
<sup>•</sup> Self-heating substances and mixtures	Void	
<sup>•</sup> Substances and mixtures, which emit flammable gase	95	
-	Void	
in contact with water	Void	
in contact with water <sup>··</sup> Oxidising liquids		
· Oxidising liquids	Void	
<ul> <li>Oxidising liquids</li> <li>Oxidising solids</li> </ul>	Void Void	

## **SECTION 10: Stability and reactivity**

. 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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\* 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

No quantitative toxicity data are available for this product.

Based on available data, the classification criteria are not met.

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- \* Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

- · Carcinogenicity Based on available data, the classification criteria are not met.
- \* Reproductive toxicity Based on available data, the classification criteria are not met.
- \* STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- \* 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- \* 12.7 Other adverse effects No further relevant information available.
  - · General notes: Not hazardous for water.
  - Additional ecological information:
  - · General notes: Not hazardous for water.
  - · Additional ecological information: Not hazardous for water.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

#### • Uncleaned packaging:

#### Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product. • **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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### Trade name: TEP 7

SECTION 14: Transport information		
<sup>·</sup> 14.1 UN number or ID number		
· ADR/RID, ADN, IMDG, IATA	Void	
<sup>·</sup> 14.2 UN proper shipping name		
· ADR/RID	Void	
	Void	
· ADN, IMDG, IATA	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR/RID, ADN, IMDG, IATA		
Class	Void	
<sup>·</sup> 14.4 Packing group		
· ADR/RID, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according to	o IMO	
instruments	Not applicable.	
<sup>•</sup> Transport/Additional information:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	Void	

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

• Date of previous version: 19.01.2023

· Version number of previous version: 3

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



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Revision: 19.01.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

- Trade name: TEP 10 Trace
  - · Article number: 108703
- **Description:** Technical buffer solution pH 10.01 (25 °C)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

- **Product category:** PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Calibration solution

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany Tel. +49 881 183-0

· Further information obtainable from: E-mail: Info.WTW@xylem.com

1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

#### 2.2 Label elements:

- · Labelling according to Regulation (EC) No 1272/2008: Void
  - · Hazard pictograms: Void
  - · Signal word: Void
  - · Hazard statements: Void
- · 2.3 Other hazards No further relevant information available.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

#### · Description:

Mixture, consisting of the following components: Water, sodium carbonate, sodium hydrogencarbonate

• Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### •4.1 Description of first aid measures

• General information: Take off contaminated clothing and wash it before reuse.

- After inhalation: Supply fresh air.
- · After skin contact: Rinse skin with water [or shower].
- \* After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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#### Trade name: TEP 10 Trace

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#### After swallowing:

Rinse out mouth and then drink plenty of water. Get medical advice/attention if you feel unwell.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **SECTION 5: Firefighting measures**

<sup>·</sup> 5.1 Extinguishing media

• Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.

- 5.2 Special hazards arising from the substance or mixture No hazards to be particularly mentioned.
- 5.3 Advice for firefighters

· Protective equipment: No special measures required.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
- No special measurements required when handled properly.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections No dangerous substances are released.

## **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
  - · Requirements to be met by storerooms and receptacles: No special requirements.
  - · Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- .7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

#### <sup>•</sup> 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. • Additional information: The lists valid during the making were used as basis.

#### <sup>•</sup> 8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.

#### Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

- Avoid contact with the eyes and skin.
- Take off contaminated clothing and wash it before reuse.
- Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Hand protection Protective gloves recommended for frequent or long-term skin contact. • Material of gloves Nitrile rubber, NBR
- · Eye/face protection Safety glasses

according to 1907/2006/EC, Article 31

Version number 5 (replaces version 4)

Trade name: TEP 10 Trace

· Environmental exposure controls Not hazardous for water.

SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and chemical properties		
General Information		
<sup>•</sup> Physical state	Fluid	
· Colour:	Amber coloured	
· Odour:	Odourless	
Melting point/freezing point:	-2.6 °C	
Boiling point or initial boiling point and boiling range	100 °C	
Flammability	Product is not flammable.	
Flash point:	Not applicable.	
pH at 25 °C	10	
· Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	
Vapour pressure at 20 °C:	23 hPa	
Density and/or relative density		
· Density at 20 °C:	1.01 g/cm <sup>3</sup>	
9.2 Other information		
<sup>•</sup> Important information on protection of health and		
environment, and on safety.		
Explosive properties:	Product does not present an explosion hazard.	
Information with regard to physical hazard classes		
Explosives	Void	
<sup>•</sup> Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
<sup>·</sup> Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable gase		
in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
· Desensitised explosives	Void	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

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- \* 10.4 Conditions to avoid No further relevant information available.
- \* 10.5 Incompatible materials: No further relevant information available.
- \* 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
  - · Acute toxicity
  - No quantitative toxicity data are available for this product.
  - Based on available data, the classification criteria are not met.
  - Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - · Carcinogenicity Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - \* STOT-single exposure Based on available data, the classification criteria are not met.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- \* 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- \* 12.5 Results of PBT and vPvB assessment Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
  - · General notes: Not hazardous for water.
  - Additional ecological information:
    - · General notes: Not hazardous for water.
  - · Additional ecological information: Not hazardous for water.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

### · Uncleaned packaging:

## Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

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#### Trade name: TEP 10 Trace

**SECTION 14: Transport information** 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA Void 14.2 UN proper shipping name · ADR/RID Void Void ADN, IMDG, IATA Void 14.3 Transport hazard class(es) ADR/RID, ADN, IMDG, IATA · Class Void 14.4 Packing group · ADR/RID, IMDG, IATA Void · 14.5 Environmental hazards: Not applicable. 14.6 Special precautions for user Not applicable. 14.7 Maritime transport in bulk according to IMO instruments Not applicable. UN "Model Regulation": Void

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

- · Date of previous version: 19.01.2023
- · Version number of previous version: 4
- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

Printing date 23.01.2023

Version number 5 (replaces version 4)

Revision: 19.01.2023

## Trade name: TEP 10 Trace

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



a **xylem** brand Page 1/6

## Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 3 (replaces version 2)

Revision: 23.01.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: KCI-250

· Article number: 109705

· Description: Potassium chloride solution 3 mol/l (AgCl-free)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

- **Product category:** PC21 Laboratory chemicals
- Process category: PROC15 Use as laboratory reagent
- Application of the substance / the preparation: Electrolyte solution

### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Xylem Analytics Germany GmbH WTW Am Achalaich 11 82362 Weilheim Germany Tel. +49 881 183-0

· Further information obtainable from: E-mail: Info.WTW@xylem.com

1.4 Emergency telephone number: Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

#### 2.2 Label elements:

- · Labelling according to Regulation (EC) No 1272/2008: Void
  - · Hazard pictograms: Void
  - · Signal word: Void
  - · Hazard statements: Void
- · 2.3 Other hazards No further relevant information available.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

#### · Description:

Mixture, consisting of the following components: Water, potassium chloride

• Dangerous components: Void

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### • 4.1 Description of first aid measures

- After inhalation: Supply fresh air.
- After skin contact: Rinse skin with water [or shower].
- After eye contact: Rinse opened eye for several minutes under running water.

according to 1907/2006/EC, Article 31 Version number 3 (replaces version 2)

Printing date 23.01.2023

### Trade name: KCI-250

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#### <sup>•</sup> After swallowing:

Rinse out mouth and then drink plenty of water. Get medical advice/attention if you feel unwell.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **SECTION 5: Firefighting measures**

<sup>·</sup> 5.1 Extinguishing media

- Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.
- 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Hydrogen chloride (HCl)
- 5.3 Advice for firefighters
  - · Protective equipment: Wear self-contained respiratory protective device.
  - · Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures No special measures required.

#### · 6.2 Environmental precautions:

- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Wash off residuals with water.

6.4 Reference to other sections No dangerous substances are released.

## **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
  - · Requirements to be met by storerooms and receptacles: No special requirements.
  - <sup>•</sup> Information about storage in one common storage facility: Not required.
  - \* Further information about storage conditions: Store tigthly sealed at temperatures between 15 °C and 25 °C.
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists valid during the making were used as basis.

### 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

#### <sup>1</sup> Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

- Avoid contact with the eyes and skin.
- Do not inhale gases / fumes / aerosols.
- Take off contaminated clothing and wash it before reuse. Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.

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## Trade name: KCI-250

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	(Conta.
Hand protection Protective gloves recommended for frequent	or long-term skin contact.
Material of gloves Nitrile rubber, NBR	
Eye/face protection Safety glasses	
• Environmental exposure controls	h h amanda ya ƙan watan
Water hazard class 1 (German Regulation) (Self-assessment): slight Do not allow undiluted product or large quantities of it to reach ground	
SECTION 9: Physical and chemical properties	
ocorrow of a hysical and chemical properties	
9.1 Information on basic physical and chemical properties	
· General Information	
<sup>•</sup> Physical state	Fluid
· Colour:	Colourless
<sup>·</sup> Odour:	Odourless
Melting point/freezing point:	Undetermined.
<sup>•</sup> Boiling point or initial boiling point and boiling range	100 °C
<sup>·</sup> Flammability	Product is not flammable.
Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
<sup>·</sup> Flash point:	Not applicable.
pH at 20 °C	6.2
Viscosity:	
Kinematic viscosity	Not determined.
<sup>·</sup> Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.13 g/cm³
9.2 Other information	
· Important information on protection of health and	
environment, and on safety.	
· Auto-ignition temperature:	Draduat is not colfigniting
· Explosive properties:	Product is not selfigniting.
	Product does not present an explosion hazard.
Information with regard to physical hazard classes	
Explosives	Void
<sup>·</sup> Flammable gases	Void
Aerosols	Void
<sup>•</sup> Oxidising gases	Void
<sup>•</sup> Gases under pressure	Void
<sup>·</sup> Flammable liquids	Void
<sup>·</sup> Flammable solids	Void
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases	
in contact with water	Void
	Void
· Oxidising liquids	Volu
· Oxidising liquids · Oxidising solids	Void
· Oxidising liquids · Oxidising solids · Organic peroxides	

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Revision: 23.01.2023

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### Trade name: KCI-250

Desensitised explosives

Void

## **SECTION 10: Stability and reactivity**

. 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
  - . Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- . 10.5 Incompatible materials: No further relevant information available.

. 10.6 Hazardous decomposition products: In case of fire, see section 5.

## **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

No quantitative toxicity data are available for this product.

Based on available data, the classification criteria are not met.

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- <sup>•</sup> Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- \* Reproductive toxicity Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information:

Acute effects (acute toxicity, irritation and corrosivity):

After swallowing a larga amount of pottassium chloride, cardiac/circulatory disorder, agitation and spasms may occur.

## 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- \* 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- \* 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects

### · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Revision: 23.01.2023

## Trade name: KCI-250

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Recommendation

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

· Euro	pean waste catalogue
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03 00	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

#### • Uncleaned packaging:

#### · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. • **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information** 

14.1 UN number or ID number		
· ADR/RID, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name		
· ADR/RID	Void	
	Void	
· ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR/RID, ADN, IMDG, IATA		
Class	Void	
14.4 Packing group		
ADR/RID, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according	to IMO	
instruments	Not applicable.	
· UN "Model Regulation":	Void	

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

• Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed

**REGULATION (EU) 2019/1148** 

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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according to 1907/2006/EC, Article 31

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Trade name: KCI-250

Printing date 23.01.2023

## Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

Date of previous version: 12.10.2021

Version number of previous version: 2

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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